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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,537	04/27/2001	Robert W. Baxter	9266-2	3743

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[REDACTED] EXAMINER

CORRIELUS, JEAN M

[REDACTED] ART UNIT

[REDACTED] PAPER NUMBER

2172

DATE MAILED: 07/08/2003

4

Please find below and/or attached an Office communication concerning this application or proceeding.

JM

Art Unit: 2172:

DETAILED ACTION

1. This office action is in response to the application filed on April 27, 2001, which claims 1-33 are presented for examination.

Drawings

2. Applicants are required to furnish the formal drawings in response this office action. No new matter may be introduced in the required drawing. Failure to timely submit a drawing will result in **ABANDONMENT** of the application.

Information Disclosure Statement

3. The information disclosure statement (IDS) filed on April 27, 2001 complies with the provisions of M.E.P.. § 609. It has been placed in the application file. The information referred to therein has been considered as to the merits. (See attached form).

Claim Rejections - 35 U.S.C. § 112

4. Claims 1-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 12 and 23 recite "detecting the stored command in the database". It is unclear as to why one having ordinary skill in the art at the time the invention was made to detect a stored command, when the commands are previously stored in the database by those having ordinary skill in the art. Can it be possible that the step of "detecting the stored command in the database" would

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as --requesting the stored command in the database--. Clarification with regard to the above mentioned is required.

Claim Rejections - 35 U.S.C. § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-5, 12-16 and, 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eidson US Patent no. 5,923,557.

As to claims 1, Eidson discloses the claimed limitations “storing a command for the controller in a database, wherein the command is selected from a group of commands consisting of a write command that is configured to write a value of a real-time process control variable to the controller and read command that is configured to read a value of a real time process control variable from the controller” where the device specific information in the database includes a set of device specific information for each of the process control devices detected by the mapping processor, wherein the device specific information for a particular process control device includes information such as the number of variables associated with the process control device, the triggering requirement, wherein in general, each variable associated with a process control device maps to a channel (col.4, lines 55-65). Eidson does not explicitly disclose the use of detecting the

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stored command in the database. Eidson, however discloses the use of obtaining a set of information pertaining to the process control wherein the information described the process control according to the predetermined device oriented protocol that corresponds to the standard interface (col.2, lines 55-62; col.4, lines 28-40 and 55-65). Eidson discloses also the use of "retrieving the stored command from the database responsive to detecting the stored command" as retrieving the device specific information from the external network server that contains the dictionary (col.6, lines 3-15); and "sending the retrieved command to the controller" as a way of passing the information to the mapping processor which writes it into the database (col.6, lines 3-32).

Therefore, it would have been obvious to one of ordinary skill in the art of data processing, at the time the present invention was made to modify the teachings of Eidson, wherein the process control system, provided therein (See Eidson's fig.3) would incorporate the use of detecting the stored command in the database, as the same conventional manner of detecting the device connected to the field bus depends on the predetermined protocol of the field bus, as disclosed by Eidson (col.2, lines 55-62; col.4, lines 28-40 and 55-65). Such modification would provide Eidson's system the enhanced computing ability for enabling the application controller to communicate with the process control, thereby controlling the correspondence process control, decreasing the difficulty and cost of maintaining the process control system. securing information delivery, thereby authorizing locations, and tracking and updating the status the information data.

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As to claims 2, Eidson discloses the claimed limitation “verifying that the stored command is a valid command for the controller” as obtaining information such as the triggering requirement (col.5, lines 22-29).

As to claims 3, Eidson discloses the claimed limitations “sending a write command that is configured to write a first value of a first real-time process control variable to the controller” by writing the interface specific configuration information in the device oriented interface database with appropriate values (col.5, lines 15-20); and “sending a read command that is configured to write a first value of a first real-time process control variable to the controller responsive to sending the write command that is configured to write the first value of the first real time process control variable to the controller” as reading the device specific information from the device dictionary and writing it to appropriate entries in the device oriented interface database (col.5, lines 43-47).

As to claims 4, Eidson discloses the claimed limitations “receiving a response from the controller responsive to sending the retrieved command to the controller” (col.6, lines 1-7); and “updating a status of the retrieved command sent to the controller in a command table in the database to indicate whether the retrieved command sent to the controller succeeded or failed” as updating the dictionary server attached to field bus as new process control device become available or modified in term of device specific information (col.5, lines 61-64).

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As to claims 5, Eidson discloses the claimed limitation “updating the current value associated with the first real time process control variable in a tag in the table in the database with the first real time process control variable read from the controller responsive to receiving the response from the controller” as updating the dictionary server attached to field bus as new process control device become available or modified in term of device specific information (col.5, lines 61-64).

As to claims 12-16:

Claims 12-16 are for system claims performing the methods of claims 1-5. They are similarly rejected.

As to claims 23-27

Claims 23-27 are for computer readable medium containing instructions performed by the methods of claims 1-5. They are similarly rejected.

7. Claims 6-11, 17-22 and 28-33 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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Allowable Subject Matter

8. Claims 6-11, 17-22 and 28-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reason for Indicating Allowable Subject Matter

9. The present application has been thoroughly reviewed. Upon extensive and exhaustive searches of various databases (see search notes in case jacket), the examiner respectfully submits that the claimed feature --providing a tag table in the database that comprises definitions of a plurality of real time process control variables, wherein each of the plurality of real time process control variables is associated with a monitoring frequency and a current value; periodically sending a read command that is configured to read a value of a real-time process control variable for respective ones of the plurality of real time process control variables from the controller based on the respective monitoring frequencies; and updating the respective current values for respective ones of the plurality of real time process control variables with the respective values of the real time process control variables read from the controller-- in the method, system and computer program of claims 6, 17 and 28 respectively and in conjunction with all other limitations of the dependent and independent claims would not be found anticipated or obvious over the prior art made of record.

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10. Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office Action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

11. Any inquiry concerning this communication or early communication from the Examiner should be directed to **Jean Corrielus** whose telephone number is (703) 306-3035. The Examiner can normally be reached on the weekdays from 7:00am to 5:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, **Kim Vu**, can be reached on (703)305-9343.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 746-7239, (for formal communications intended for entry)

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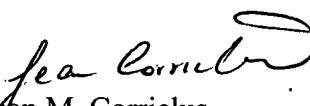
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Or:

(703)746-7240 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to **Crystal Park II, 2021 Crystal Drive, Arlington,**

VA., Sixth Floor (Receptionist).


Jean M. Corrielus

Patent Examiner

June 27, 2003